

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P193538

Luminaire Tested: **GLEON-AF-10-LED-E1-RW-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193538
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-RW-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32379 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

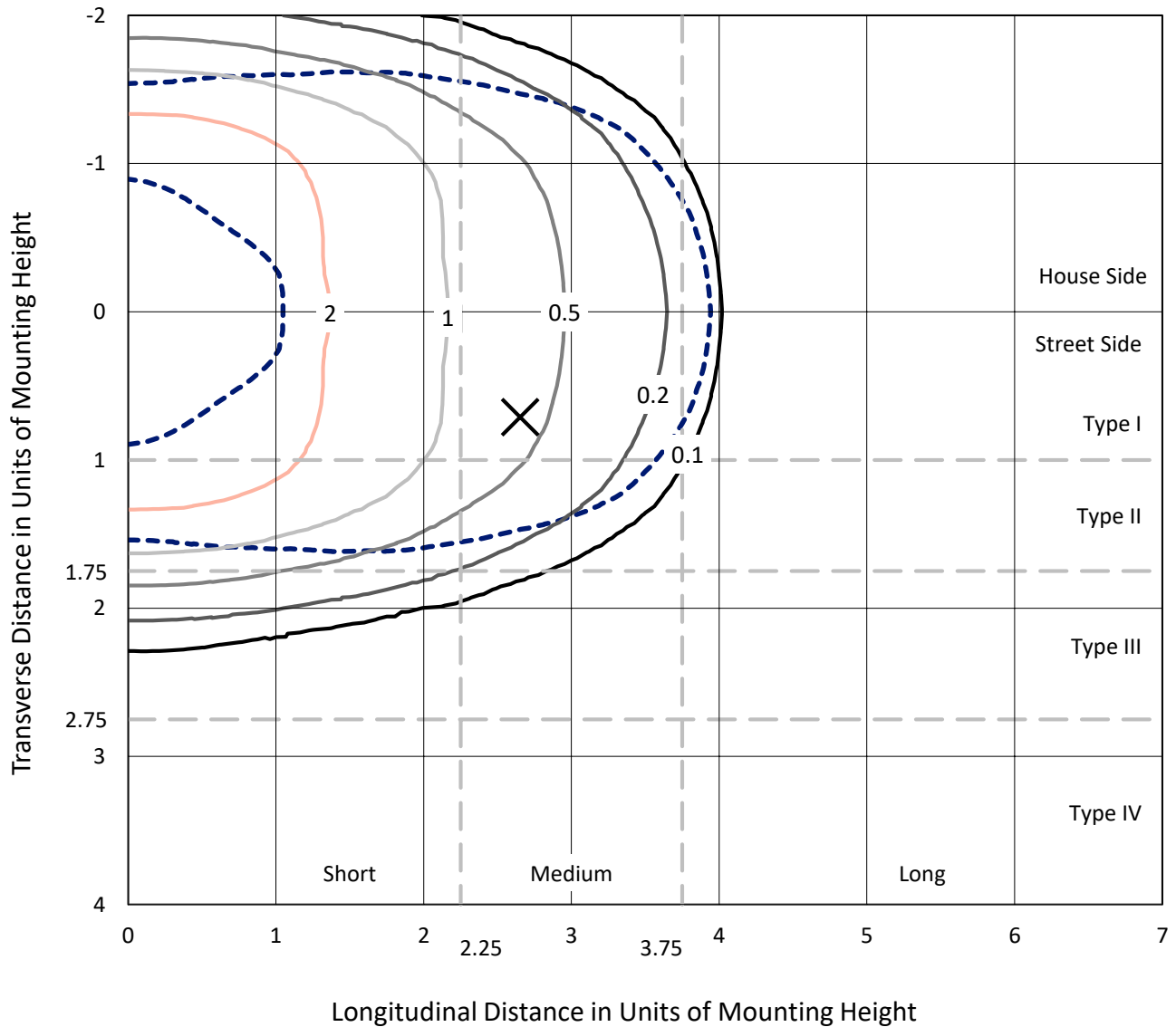


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Iso-Footcandle Lines of Horizontal Illumination

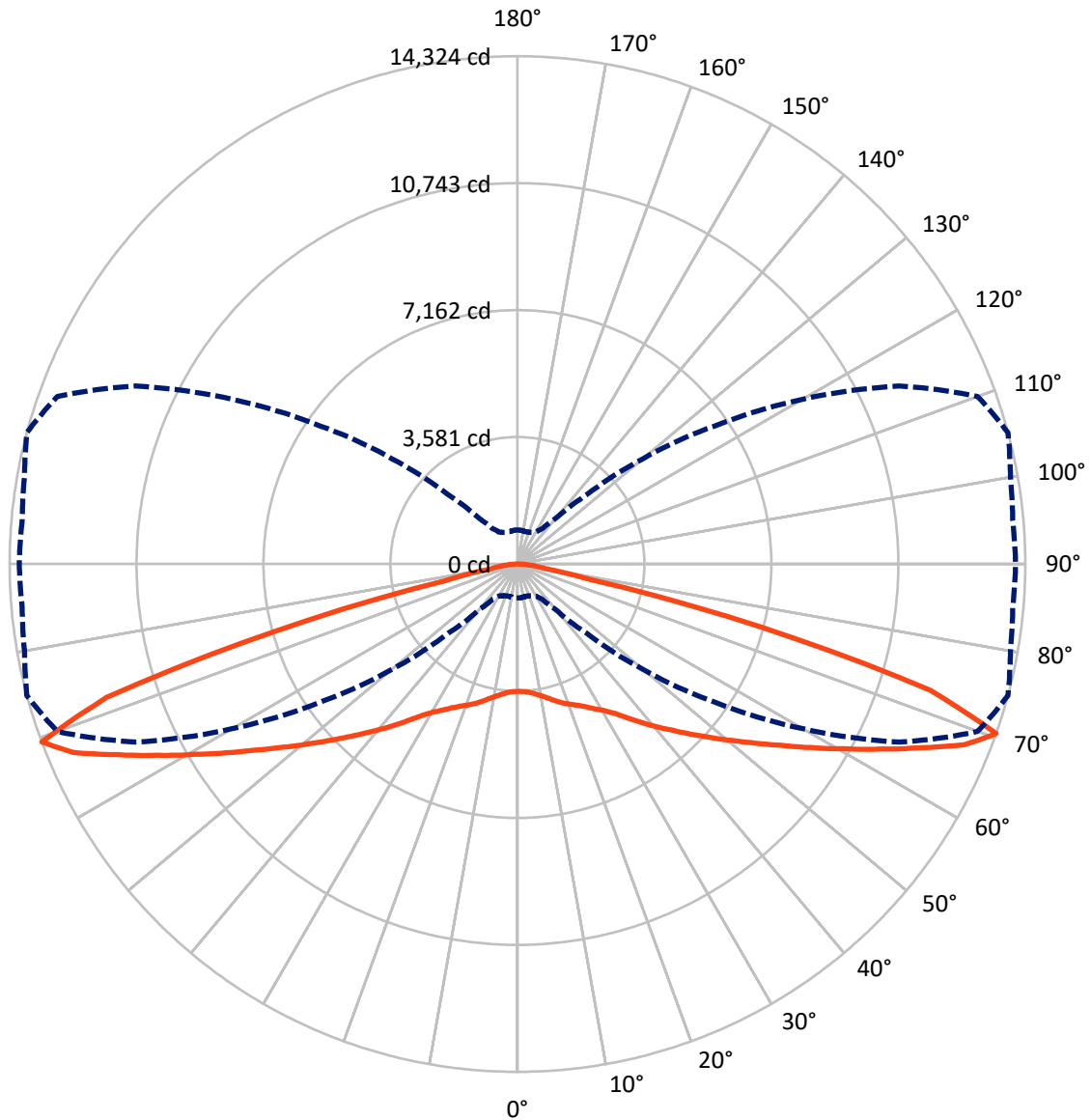
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16189.5	0.0	16189.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16189.5	0.0	16189.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32379.0	0.0	32379.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	1.1
10°-20°	1070.3	3.3
20°-30°	2014.5	6.2
30°-40°	3567.2	11.0
40°-50°	5965.5	18.4
50°-60°	8313.0	25.7
60°-70°	7708.9	23.8
70°-80°	3072.2	9.5
80°-90°	322.9	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	32379.0	100.0
0°-180°	32379.0	100.0



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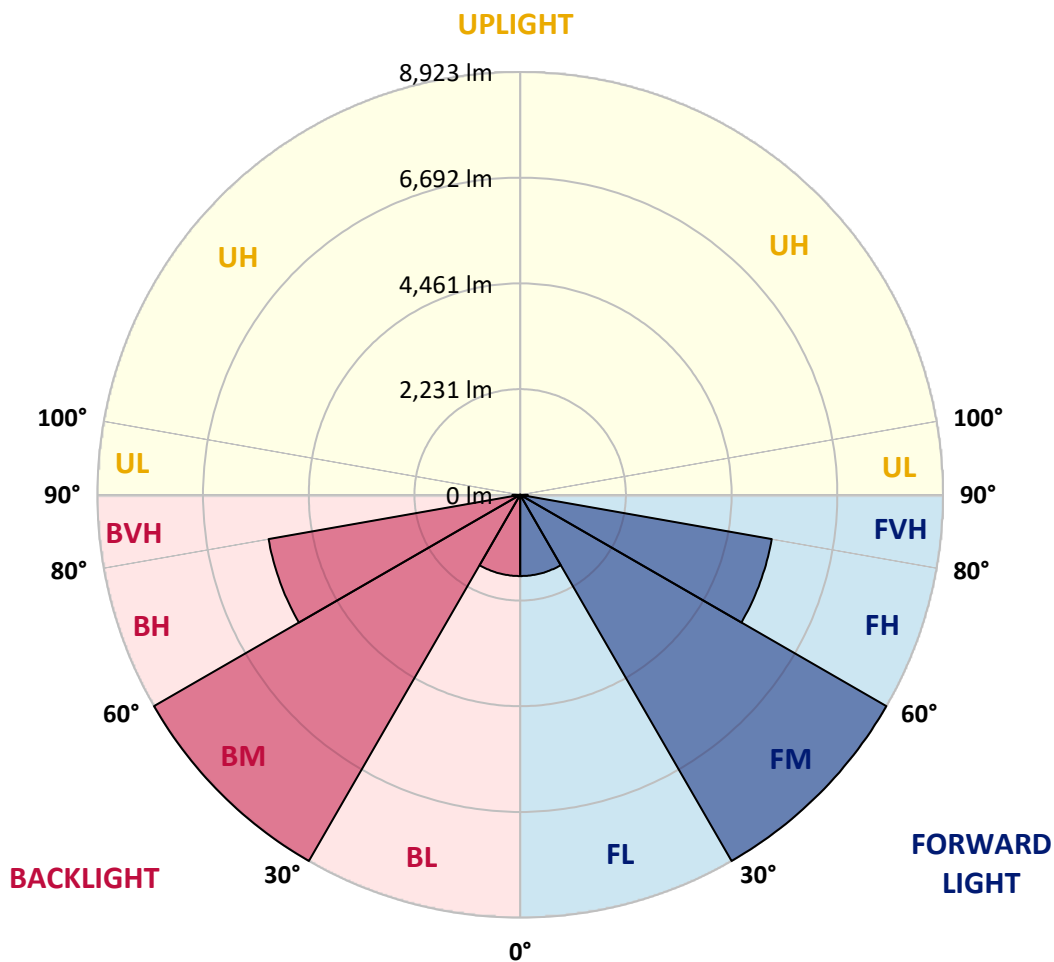
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1714.6	5.3			
FM	(30°-60°)	8922.8	27.6			
FH	(60°-80°)	5390.6	16.6			G3/7500
FVH	(80°-90°)	161.5	0.5			G2/225
BL	(0°-30°)	1714.6	5.3	B3/2500		
BM	(30°-60°)	8922.8	27.6	B5		
BH	(60°-80°)	5390.6	16.6	B5		G5
BVH	(80°-90°)	161.5	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6
2.5°	3585.5	3582.4	3585.5	3583.9	3587.0	3587.0	3590.1	3596.2	3596.2	3600.8	3599.2
5°	3550.3	3548.7	3553.3	3557.9	3562.5	3571.7	3580.9	3594.6	3605.4	3613.0	3620.7
7.5°	3481.4	3481.4	3487.5	3498.2	3509.0	3528.8	3550.3	3577.8	3605.4	3628.3	3648.2
10°	3424.8	3427.8	3435.5	3453.9	3472.2	3502.8	3531.9	3571.7	3609.9	3648.2	3678.8
12.5°	3391.1	3395.7	3409.5	3437.0	3467.6	3509.0	3553.3	3603.8	3646.7	3692.6	3723.2
15°	3401.8	3404.9	3424.8	3458.5	3498.2	3550.3	3609.9	3669.6	3720.1	3769.1	3810.4
17.5°	3461.5	3466.1	3489.1	3527.3	3568.6	3629.8	3694.1	3761.4	3824.2	3879.3	3929.8
20°	3568.6	3573.2	3602.3	3643.6	3692.6	3755.3	3819.6	3890.0	3960.4	4018.5	4075.2
22.5°	3720.1	3727.8	3755.3	3796.6	3851.7	3919.1	3995.6	4070.6	4137.9	4191.5	4242.0
25°	3919.1	3935.9	3961.9	4007.8	4066.0	4127.2	4209.8	4286.3	4350.6	4401.1	4437.8
27.5°	4200.6	4223.6	4243.5	4287.9	4344.5	4402.6	4485.3	4552.6	4613.8	4662.8	4690.3
30°	4574.0	4597.0	4616.9	4659.7	4711.8	4766.8	4844.9	4904.6	4942.8	4981.1	4979.6
32.5°	5027.0	5051.5	5059.1	5105.0	5158.6	5218.3	5288.7	5322.3	5352.9	5357.5	5330.0
35°	5533.5	5545.8	5576.4	5637.6	5698.8	5747.8	5815.1	5831.9	5831.9	5809.0	5747.8
37.5°	6089.0	6096.7	6139.5	6208.4	6271.1	6321.6	6367.5	6401.2	6384.4	6335.4	6232.9
40°	6698.1	6711.8	6773.1	6834.3	6904.7	6952.1	7001.1	7007.2	6990.4	6918.4	6779.2
42.5°	7279.6	7291.8	7353.0	7449.4	7541.3	7607.1	7653.0	7662.2	7608.6	7542.8	7369.9
45°	7780.0	7812.1	7891.7	8004.9	8138.1	8231.4	8294.2	8320.2	8272.7	8187.0	7986.6
47.5°	8176.3	8208.5	8321.7	8456.4	8621.6	8773.1	8877.2	8932.3	8920.0	8855.8	8636.9
50°	8467.1	8497.7	8620.1	8785.4	8978.2	9166.4	9343.9	9475.5	9521.5	9492.4	9291.9
52.5°	8500.7	8551.2	8695.1	8917.0	9168.0	9425.0	9677.5	9901.0	10052.5	10075.4	9927.0
55°	8031.0	8081.5	8280.4	8609.4	8982.8	9402.1	9806.1	10182.5	10480.9	10634.0	10555.9
57.5°	6923.0	7013.3	7223.0	7608.6	8158.0	8785.4	9429.6	10098.4	10705.9	11111.4	11189.5
60°	5305.5	5412.6	5623.8	6033.9	6646.0	7394.4	8254.4	9242.9	10315.7	11227.7	11772.5
62.5°	3403.4	3504.4	3726.3	4082.8	4581.7	5392.7	6315.5	7489.2	8930.8	10370.8	11668.4
65°	1749.1	1804.2	1920.5	2136.3	2525.0	3131.0	3958.9	5129.5	6777.6	8554.3	10430.4
67.5°	1107.9	1118.6	1144.7	1175.3	1274.7	1484.4	1870.0	2600.0	3955.8	5809.0	8004.9
70°	958.0	958.0	945.7	941.1	953.4	982.4	1042.1	1212.0	1669.5	2757.6	4616.9
72.5°	876.9	867.7	846.2	829.4	826.4	826.4	838.6	864.6	938.1	1123.2	1807.3
75°	808.0	782.0	752.9	733.0	725.4	717.7	716.2	720.8	736.1	765.1	863.1
77.5°	723.8	690.2	656.5	636.6	627.4	616.7	607.5	596.8	589.2	598.3	641.2
80°	622.8	584.6	558.6	546.3	537.1	521.8	501.9	483.6	466.7	463.7	489.7
82.5°	501.9	457.6	459.1	463.7	446.8	425.4	404.0	384.1	355.0	339.7	355.0
85°	405.5	382.6	371.9	400.9	376.5	344.3	310.6	275.5	229.5	192.8	209.6
87.5°	157.6	157.6	235.7	362.7	326.0	266.3	228.0	194.3	120.9	93.3	94.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6
2.5°	3597.7	3600.8	3599.2	3597.7	3597.7	3596.2	3597.7	3597.7
5°	3625.3	3632.9	3632.9	3636.0	3636.0	3637.5	3639.0	3637.5
7.5°	3666.6	3680.3	3689.5	3700.2	3701.8	3703.3	3706.4	3703.3
10°	3707.9	3735.4	3755.3	3775.2	3784.4	3787.5	3790.5	3790.5
12.5°	3759.9	3798.2	3833.4	3868.6	3885.4	3894.6	3894.6	3900.7
15°	3845.6	3883.9	3925.2	3972.6	4001.7	4017.0	4021.6	4021.6
17.5°	3966.5	4000.2	4035.4	4081.3	4118.0	4137.9	4142.5	4141.0
20°	4107.3	4139.4	4159.3	4188.4	4220.5	4243.5	4249.6	4249.6
22.5°	4268.0	4286.3	4289.4	4298.6	4324.6	4355.2	4369.0	4372.0
25°	4445.5	4450.1	4437.8	4437.8	4454.7	4483.7	4497.5	4499.0
27.5°	4675.0	4652.1	4621.5	4610.8	4621.5	4655.1	4672.0	4678.1
30°	4961.2	4906.1	4835.7	4797.5	4791.3	4835.7	4866.3	4870.9
32.5°	5288.7	5209.1	5115.8	5037.7	5017.8	5045.4	5082.1	5080.6
35°	5677.4	5582.5	5469.2	5369.8	5323.9	5351.4	5403.4	5409.6
37.5°	6125.7	6001.8	5871.7	5746.2	5674.3	5682.0	5737.0	5755.4
40°	6626.1	6465.5	6301.7	6133.4	6030.9	6011.0	6078.3	6089.0
42.5°	7161.7	6955.2	6748.6	6540.5	6408.8	6378.2	6456.3	6451.7
45°	7732.5	7469.3	7227.5	6998.0	6841.9	6796.0	6860.3	6860.3
47.5°	8346.2	8021.8	7734.1	7473.9	7304.1	7238.3	7299.5	7304.1
50°	8996.6	8652.2	8314.1	8024.8	7821.3	7737.1	7816.7	7829.0
52.5°	9643.9	9308.7	8967.5	8636.9	8390.6	8288.0	8379.9	8419.6
55°	10300.4	9971.4	9645.4	9322.5	9030.2	8909.3	9007.3	9057.8
57.5°	10993.6	10689.1	10378.4	10052.5	9770.9	9582.7	9686.7	9754.1
60°	11806.2	11546.0	11223.1	10863.5	10578.9	10387.6	10447.3	10507.0
62.5°	12448.9	12549.9	12276.0	11859.7	11494.0	11249.1	11307.3	11370.0
65°	12138.2	13174.2	13417.6	12996.7	12490.2	12109.2	12084.7	12116.8
67.5°	10145.8	12158.1	13625.7	14026.6	13602.7	13073.2	12975.3	13022.7
70°	6786.8	9293.4	11882.7	13810.8	14323.5	14118.4	14022.0	14051.1
72.5°	3259.5	5412.6	8061.6	10624.8	12185.7	12901.9	13131.4	13243.1
75°	1192.1	2148.5	3885.4	5854.9	7068.4	8182.4	8909.3	9206.2
77.5°	719.2	867.7	1241.1	1868.5	2116.4	2368.9	2270.9	2319.9
80°	532.5	601.4	681.0	765.1	792.7	792.7	762.1	737.6
82.5°	373.4	417.8	456.0	501.9	514.2	491.2	404.0	321.4
85°	240.3	260.1	277.0	306.1	298.4	284.6	191.3	169.9
87.5°	110.2	125.5	131.6	145.4	139.3	133.1	94.9	79.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)